

Title (en)
VANES FOR THE IMPELLER OF A VENTILATOR, IMPELLER, AND AXIAL VENTILATOR, DIAGONAL VENTILATOR, OR RADIAL VENTILATOR

Title (de)
FLÜGEL FÜR DAS LAUFRAD EINES VENTILATORS, LAUFRAD SOWIE AXIALVENTILATOR, DIAGONALVENTILATOR ODER RADIALVENTILATOR

Title (fr)
PALE POUR ROTOR DE VENTILATEUR, ROTOR ET VENTILATEUR AXIAL, VENTILATEUR DIAGONAL OU VENTILATEUR RADIAL

Publication
EP 3655664 A1 20200527 (DE)

Application
EP 18746087 A 20180618

Priority
• DE 102017212231 A 20170718
• DE 2018200063 W 20180618

Abstract (en)
[origin: WO2019015729A1] The invention relates to vanes for the impeller of a ventilator, in particular an axial ventilator, diagonal ventilator, or radial ventilator, comprising a waved leading edge and a waved trailing edge, wherein the waves on the leading edge have a larger wavelength than the waves on the trailing edge. The invention also relates to an impeller with corresponding vanes and to axial ventilators/diagonal ventilators and radial ventilators comprising an impeller with corresponding vanes.

IPC 8 full level
F04D 29/30 (2006.01); **F04D 29/38** (2006.01)

CPC (source: EP US)
F01D 5/04 (2013.01 - US); **F04D 29/281** (2013.01 - EP); **F04D 29/30** (2013.01 - EP US); **F04D 29/384** (2013.01 - EP); **F05D 2240/303** (2013.01 - EP US); **F05D 2240/304** (2013.01 - EP US); **F05D 2250/181** (2013.01 - EP); **F05D 2250/182** (2013.01 - EP); **F05D 2250/183** (2013.01 - EP); **F05D 2250/184** (2013.01 - EP); **F05D 2250/611** (2013.01 - EP)

Citation (search report)
See references of WO 2019015729A1

Designated contracting state (EPC)
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)
BA ME

DOCDB simple family (publication)
WO 2019015729 A1 20190124; BR 112020000689 A2 20200714; CN 111094758 A 20200501; CN 111094758 A8 20200605; DE 102017212231 A1 20190124; EP 3655664 A1 20200527; JP 2020527667 A 20200910; JP 7219748 B2 20230208; RU 2020107101 A 20210818; RU 2020107101 A3 20211108; US 11035233 B2 20210615; US 2020173284 A1 20200604

DOCDB simple family (application)
DE 2018200063 W 20180618; BR 112020000689 A 20180618; CN 201880059989 A 20180618; DE 102017212231 A 20170718; EP 18746087 A 20180618; JP 2020501817 A 20180618; RU 2020107101 A 20180618; US 201816631500 A 20180618